Recd June 30 1866
Ans Aug 28

Phila June 27 1866

Dr. Geo. Engelmann
St Louis

Dear Sir

Mr. AHSmith Prof Porter and myself went last week to the locality of J. Smithii and spent a day in a thorough hunt - but without success - I think we are too early for it - This has been a cold wet backward season - I shall try it again in July - I am quite sure that I know the spot on which I found it.

I regret to have to give you this news - but I do not despair of finding it yet.

Yours Very
Respy
Charles E Smith

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Recd July 17
Ansr Aug 13

Phila July 14 '66

Dr Geo. Engelmann
St Louis
Dear Sir

I received your favor of June 28 and a few days after the bundle of Junci. for which I am much your debtor.

July 3 - & 4th I explored all the mud holes in 18 miles along the road to Quaker bridge - about half way. for J. asper, without finding any new locality.
There is a good crop at my old spot. I enclose one as a specimen of its condition at the beginning of July -

I have arranged my Junci according to your revision and shall collect in Aug. & Sept. those about here -
I think you have solved my

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difficulties. It is a comfort to me to see that they were real difficulties in the genus as descbd. by Gray, inasmuch as you solve them by reestablishing old forms rejected by him. The facts do not admit of so great condensation as he gave to them.

I have copied off your desiderata from our district and given the list to our active botanists. I hope to supply them all or nearly all. I will try J. Smithii again

Yours Very Resply
Charles E Smith

We have a fresh haul at the Navy Yard of ½ doz English Species - blockade runners?

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Recd Aug 28th
Ans same day

Phila Saturday Evng
Aug 25th 1866

Geo. Engelmann M.D.
St Louis
Dear Sir

I have just returned from a trip with Leidy & Porter after J. Smithii — I enclose a few not dry — to save two mails.

We found it abundant — and also in another locality also in the old red sandstone 30 miles in an air line S.W. of the first one at a place called Rausch Gap in Lebanon Co. Pa.

It is too ripe of course, but we can furnish 100 specimens for you in fruit — I enclose a few tops of the youngest, in the hope that you may find some stamens —

I have about 25 J. asper dried for you & will make you up a respectable bundle in a few weeks

Yrs. Respy.
Charles E Smith

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Recd Oct 26
Ans Nov 8

Phila Oct 23 1866

Dr Geo Engelmann
St Louis Mo.

Dear Sir

I sent you yesterday per Adams Express a small box containing the fruits of our season's work for you in Junci. Keeping the contribution of each one separate. The small bottle from Leidy with tuberous roots of J. Conradi has interested us much, as something new & unexpected.

Among the Junci from me you will find a few plants of other Genera in a separate package - Some of them I believe are rare and peculiar to this vicinity I could have sent you more, but I suppose your herbarium is long since complete in this respect.

Of J. fraternus we have not sent much, It seems to bloom & mature much sooner than its allies -

I hope the package will arrive safely and will afford you as much satisfaction

as it afforded us gratification to collect it.
Porter did not find J. Smithii upon the
trip he made at our suggestion.

I am engaged in making a list of the
plants which grow with J. Smithii & J asper.
The latter grows in what is generically known
hereabouts as a Magnolia swamp.
I will submit my list to Leidy Porter &
AHSmith for their additions & when complete
I will send it to you.

If there is any thing further we can
do here to aid you I hope you will
call on us – As the only work a local
Corps like ours can do is of this nature
& it is done very cheerfully, I may
say gladly –

From the errata & additions to your
paper I indulge the hope that you
will at an early day consent to a
republication of it in the more complete
form of a monograph of the US Junci,
or N.A. Junci – describing all the species
I think the A.N.S. would do it. Yrs Resply. Chas. E Smith

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Rec Nov 14th
Ans Dec 5

see especially Braun's letter
of April 23-19 1867

Phila. Novem. 10 '66

Dr Geo Engelmann
St Louis

Dear Sir

I have your favor of Oct 22d respecting Isoetes riparia. There is a distinct group of plants here growing with it at about half tide mark, submerged at every high tide - They do not extend up to high water mark, nor down to low water mark.

I have never seen them in any other situation - I subjoin the list - It is for your other correspondents to show that they do grow elsewhere -

Isoetes riparia   Sagittaria pusilla
Eriocaulon Septangulare   do simplex
Elatine Americana   Scirpus debilis?
Hemianthus Micranthemoides   Tillaea simplex

7 Species in all -

I send you specimens of Eriocaulon and Scirpus. I have some doubt of the correctness of both their names -

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I also send you the Scirpus debilis
from our upland mud about springs -
From a cursory glance only, I think
this is the plant figured in the N.Y.
State report by Torrey
The culm at the fruit is very often
bent abruptly like the European
S. mucronatus, but it is certainly
not that plant.
I also add Isoetes riparia &
what we have called I. Engelmannii
from upland ponds -

The range of this tidal mud ~~[illegible]~~ group
from my own observation is from Phila
11 miles down the Delaware to the Lazaretto.
About 6 miles below the city, the Schuylkill
comes in - I have found them 1 mile
up that river from its mouth
A careful examination would extend this
range very much I am quite sure.
Durand says he has Isoetes riparia
found by Conrad at Burlington 20 miles
above the city -
Canby lives at Wilmington 30 miles below the

city, on the Delaware - He could furnish accurate informations about that district. The Extreme possible range must be from the head of tide water at Trenton 30 miles above the city to some point not far from Wilmington where the salt water would probably arrest them, say in all 60 miles -

They are not at all scarce in their localities - A shelving muddy shore not in possession of Zizania - Bidens & such tall & vigourous plants of gregarious habit, is the spot they select Isoetes - Eriocaulon & the two Sagittarias are the most generally diffused. The others are not so often found - but either of them when found, is generally abundant -

Porter has recently moved from Lancaster to Easton which is 7 miles from Bethlehem a rail road between them - He can next year answer all your questions about that locality

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We find Limosella also only in tidal mud but I think it grows in other places not submerged - It is rare about here - So rare that no general character can be stated as to its habit -

If you have the Flora Philadelphica Barton 1818 you will find that he describes all these plants as growing at "low tide" - We have been traversing his ground very diligently for 5 years & find him very accurate & trustworthy. Gray does not appear to recognise him - but the new edition of the Manual will contain a number of plants described by Barton as growing here - not in the present edition of the Manual, but re discovered by us and sent to Gray - Among them Danthonia sericea - Festuca myurus

The only error I have detected, is his insertion of Kalmia glauca common - We have never found it, but K. angustifolia is very common & *that* he has omitted - an Error in name I think. Yrs Respy C E Smith

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Recd Nov 22d
Ans Dec 5

Phila. Novem. 17 – 1866

Dr Geo. Engelmann
St Louis

Dear Sir

I enclose two memoranda of the plants most characteristic of the localities where Juncus asper and Juncus Smithii grow. –

I received your letter of Novem 8. and mentioned to Durand that you expected a letter from him – He said that he had been promised specimens of Isoetes riparia from the Passaic or the Raritan river N.J. near N.Y. – I think from the Raritan at New Brunswick. He is waiting for them – hence his delay in writing you –

Leidy tells me that Limosella is very abundant at Newport R.I. on the salt marshes, not submerged by the tide – hence it cannot go into the tidal mud colony – One other plant must however be added

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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Tillaea simplex - It is one of Nuttalls & Bartons tidal mud group -

If you have not already done so I would suggest a reference to the 1st Vol Journal of Acad. Nat. Sci of Phila. where I believe is the original publication of the group.

I.114

It no doubt grows about here, but I entirely overlooked it, until you made this enquiry, when in conning over Barton I came across his minute description.

I will try to look it up next season -

Yours Very Respfly
Charles E Smith

Recd Dec 4
Ans Dec 5

Phila Novem 29-'66

Dr. Geo. Engelmann
St Louis

My Dear Sir

Nuttall's Hemianthus has eluded our searches for 5 years, but Oct 28-'66 I found it in force, in the tidal mud - I sent some of it to Prof Gray suggesting that it was not well described either in the manual or Chapman's flora - especially calling his attention to the *erect* pedicilled flowers & the *recurved* pedicilled fruit. the books say "sessile"

Durand thinks they are not of the same species, or rather "not the same plant"

Porter writes "after a day over your Hemianthus
"I think it is a Micranthemum not however
"*Orbiculatum*, but a good species" -

Gray replies "I think no botanist but yourself
"ever saw so much Hemianthus - after studying
"them I shall send some to Kew - I have
"had great doubt about the genus as distinct

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"from Micranthemum" -
From this I infer that the plant is much more rare than I supposed it was - I send you some with this -

It flowers from July to Novem. - These being found so near to the end of the season do not exhibit the flowers very well, but they serve to show that it flowers until the frost kills it - I counted the seeds in ten pods - result as follows -

8, 8, 9, 12, 14, 16, 25, 30, 30, 84.

The average plump pod contains from 15 to 30 seeds - That which contained 84 attracted my attention from its size - I counted it from curiosity - I saw no other nearly so large.

Yours Very Truly
Charles E Smith

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Recd Jan 17
Ans July 13

Phila Jany 13 1867

Dr Geo. Engelmann
St Louis Mo.
Dear Sir

Your letter of Dec 5. with names of the plants (Junci) sent in the box and with your desiderata among them, came duly - Next season we shall probably be able to supply them -

The grassy leaved form of J. acuminatus - debilis is in limited quantity - but acceſsible so that I can get what there is of it - I took it for a form of debilis - but it was manifestly nearest to a plant to which you had put the enclosed label - which I followed without examination

During the past year I charged myself with supplying your wants in 3 species; Conradi - Asper - Smithii; relying on the others for the commoner species - If not too late, I can supply the others this year -

It is not easy from memory to make a trustworthy list of the plants growing with

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J. Scirpoides
Canad. longicaudatus
Canad. subcaudatus

Had I been asked before I attempted it, I would would have replied "nothing easier" but they are so generally diffused through this district that naming characteristic plants puzzles me.

This much is sure. Scirpoides prefers damp sand near water & mud but I cannot remember ever to have seen it growing in either. Along the road near the ditch, but not in it.

Longicaudatus prefers the mud & water. It grows abundantly with aspera.

x a damp flat sandy promontory from which your Scirpoides came in Tinicum.
The most characteristic plant there is Panicum Virgatum also Juncus tenuis Rhyncospora glomerata.

y. y. a sluggish brook 20 yds off, in the banks of which your Canadensis - longicaudatus (from Tinicum) grew. With it Juncus effusus, Scirpus Eriophorum, Eriophorum Virginicum

I can name 20 more plants growing in the same meadow. but I cannot assign them either to x or y, where I got the Junci.

Recd Jan 17 1867

& - is the only place that I ever saw in which J. Scirpoides was gregarious - Porter also remarked that he had never seen so much of it any where else. - Usually it is rather solitary - clusters? *one cluster* & no more -

The finest growth of J. Canadensis longicaudatus that I ever saw is with *asper* and in a mud hole close by it from which I got the grassy leaved J. debilis - the latter locality the finest of the two - There, the most marked plant is J. *effusus* - very rank. also *Eriophorum Virginicum*. Although but 50 yds. from the hole where *asper* is so abundant - there is not a blade of *asper* in it - until I planted 3 roots there last October to see whether it would grow. I mean to watch them this year.

Of J. Canad. *subcaudatus* I can venture no statement - I have not distinguished it growing - Only since I got your plants back. I think it ranges with *debilis* -

The above imperfect data are all I can give you with confidence - I regret that they are not more complete.

Porter was disposed to believe Hemianthus to be a Species of Micranthemum, but he tells me that he has since examined the drawings of both in the original publications & from them considers them both good genera.

In June 1865. I was obliged to go to Somer's point N. J. with a sick friend - before the bathing season - While there I got a Sagina of which I sent a Suite to Prof Gray similar to that enclosed herein also S. *Elliottii* from the Navy Yard & from Charleston S.C. and a Sagina with large *red* flowers from the Navy Yard. He writes me that he has studied the *Elliottii* & the Somers point plant and has concluded that *Elliottii* is the European *subulata* & that my Somers point plant is a delicate variety of it. and he has so described them in the new edition of the Manual now in press.

The red-flowered plant he had not examined at the date of his letter -

The Southern Elliottii I suppose you have, I therefore do not send it - but I will do so if you wish it.

Yours Very Respectfully
Charles E Smith

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Recd July 11
Ans July 13

Dear Mr Smith

Phila July 9 '67

Dr Geo Engelmann
St Louis

Dear Sir

I send you a specimen of Juncus Smithii got June 20 - '67, not yet in flower - Also the two small sagittarias found in our tidal mud -

Hemianthus is not yet visible this season.

Yours Very Respy
Charles E Smith

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Rec. Oct 18th
ans same Day

Phila. Oct. 15 1867

Dr Geo. Engelmann
St Louis

My Dear Sir

I must begin my letter to you by an apology for sending you J. effusus for J Smithii - Porter collected it and handed it to Leidy, who pressed it at my request for you - we were all deceived - When young, the plants look wonderfully like.

I believe I have not a single specimen of J. Smithii in flower - I will make it my business to get it -

I am receiving bundles from the party for you - They are not very large

I have 100 J. Scirpoides for you - It grows in clusters, easily separable - I have several clusters for you, dirt & all which you can examine -

I distributed your list of desiderata last winter when I got it but I fear with not much effect

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I went to Moosehead lake again this year and got fine fruiting specimens of Carex rotundata & Carex pulla var Miliaris = C. Miliaris Michx
I also got Graphephorum melicoides and Aspidium fragrans there, heretofore only known as N. Western plants - It is a comfort to penetrate the hub of the universe and make the natives acquainted with their own plants, one feels good - That is much like a missionary -

I am surprised that Gray does not admit Carex nigro-marginata into his new edition - It grows here sparingly & seems to be constant in character.

I enclose a specimen of Isoetes found growing under water in the Kennebeck river at Moosehead lake. I have not examined it I would be glad to know its name.

I will collect all that is to go from here and send the bundle to you in November -

Yours Very Truly
Chas E Smith

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Rec^d Nov 7th
Ans Dec 9

Vitis

Phila Novem 2 '67

Dr Geo. Engelmann
St Louis
Dear Sir

Your letter of Oct 18 enclosing Wolffia & Lemna came duly to hand.

The small Scirpus which I sent you last year with a note that Gray was disposed to call it a form of debilis is in the new ed. as S. ~~Smith~~ Smithii.

The Lobelia from Quaker bridge in the same bundle, not named, is L. Canbyi in the new ed.

I have laid off some good specimens of the Scirpus for you - It is one of our tidal mud colony -

I enclose a specimen of Isoetes got at Tom's river Ocean Co N. J. in dredging in 2 feet deep water after the roots of Juncus Militaris. No specimen of the Isoetes was anywhere seen except such as were

brought up in this way

Juncus articulatus - obtusior from Pettys island was ruined this year by the wet weather. Parker reports the same thing of J. militaris

My bundle is ready to go to you. I am waiting for Parker - Canby & Commons

I visited our locality of J Conradi in the early summer to find an early form which you thought might be there, but there was no vestige of it then to be found.

The summers work proves J. asper to be generally distributed over the Quaker bridge district not very abundant however.

I made several trips over Broad Mt. in the hope to extend the range of J. Smithii, but without success

Yours Very Respy

Charles E Smith

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Chs E. Smith

Rec^d Dec 6
Ans Dec 9

Phila Dec 2d 1867

Dr. Geo Engelmann
St Louis

Dear Sir

At last your box is packed and ready to go — It will leave here tomorrow — Commons writes to Canby that he has not collected any plants this year. It contains bundles from all the others whom you named.

I would have sent you Lobelia Canbyi but I know that your other contributors have done so — Carex glabra I have no specimen to send, but it is not a rare plant in N Jersey — I have no doubt that we shall get plenty of it next summer — I got it 11 miles from Camden and Parker got it near Cape May 80 miles South of my locality —

Yours Very Respy
Charles E Smith

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Recd March 7th
Ans April 12d

Phila March 3d 1868

Dr. Geo Engelmann
St Louis

Dear Sir

I received your favor of the 15th with much pleasure -

We have no one here at this time disposed to undertake the study of the Algae - We have no really salt water within 50 miles of us which would limit the study to the fresh water species, a small part of them I suppose.

I am glad to hear of the grasses which you promise me - They are wholly unknown to me - I shall study them with much interest -

The amount of labor necessary to present your herbarium of the Junci to the Botanical fraternity must have been very great, for which you will have their very sincere gratitude so far as that will compensate you for it.

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Your approaching visit gives us all great pleasure. Porter lives about 80 miles from the city - He writes me to give him notice of your coming that he may come down to pay his respects - So you see it will be necessary for you to telegraph when you leave home, that I may have time to notify him and a few other suburban botanists to meet you -

The collections of last year are generally worked up and the results are quite satisfactory - Gray's Manual was only publicly for sale in November and among us all we have made up over four pages of addenda to be shortly printed - This speaks very well for the activity and acumen of working-field-commentators - The welcome aid to a true worker in Science & the terror to all those of other kinds

Yours Very Respectfully

Charles E Smith

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Recd Febr 7th
ans March 3

Post mark Feb 3

Smith C E

Phila Feby 2 1871

Dr Geo Engelmann
St Louis
Dear Sir

I enclose Adams' Express Co's receipt for a bundle of plants sent you two days ago, consisting of a parcel from Prof. Porter, one from Mr Parker & one from myself - containing one hundred specimens of *Juncus filiformis* & one hundred of *J. pelocarpus* var *subtilis*. I would have sent you better specimens of the latter, but I was afraid of exhausting the locality - I hope to be there again next Sept & to do better -

Within a few weeks past a large bone-cave has been discovered in a lime quarry at Port Kennedy about 20 miles up the river Schuylkill, containing bones of the Mastodon & Sloth & *insects* but no human remains

Yours Very Respy Charles E Smith

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Rec May 29
A — 30

N. stricta var gracillima Ar. Gray ms

Phila. Thursday May 25 1882

Dr. Geo Engelman
3003 Locust St
St Louis Mo

Dear Sir

Torrey's plant Corema Conradii Torrey has been regarded, for some time as gradually disappearing. Some of the botanists of the A.N.S. visited Cedar bridge N.J. near Barnegat. one of Torrey's localities for it. They did not find it. We have scoured the State of N.J. between Camden & the coast at Atlantic City, without success. It is said no longer to grow on the E. end of Long Island, another of Torrey's localities.

I heard last winter, that it had been found on the top of Shawangunk Mt. Ulster Co. N.Y., where no one had ever thought of looking for it. I went there a few weeks ago & found it in plenty in a small space, of a

few yards in diameter. Not elsewhere on the Mt.
I send you, with this, by mail, today,
3 specimens of the Staminate & 3 of the pistillate
plant. Although not new, it is so rare,
& so long lost to sight, that I hope it
will interest you.

I also send a *Naias* of which
I can make nothing. It is certainly
not *flexilis* or *major*. Can it be
minor? If you will solve this
for me, you will add to the many
obligations I am already under to
you

Yours Very Resp'ly.
Charles E. Smith
216 So. 15th St.

Rec Sept 23
Ans Oct 5

Philad. Thursday Sept 21 1882

Dr Geo. Engelmann
3003 Locust St
St Louis. Mo.

Dear Sir

I received the monograph of the genus *Isoetes* for which, I am much obliged to you. It contains a few printer's errors, which may have escaped your notice.

Page 23 line 15 Moose lake Kennebunk ~~fo~~ river, should be Moose*head* lake Kenne*beck* river. There is a city of Kennebunk. The river is Kenne*beck*.

Page 25 line 16 Tillaca Till*ae*a

Page 27 line 14 from bottom *S.* Wolle should be *F.* his name is Francis

If you have a copy to spare, of your monograph of the *Junci*, I would like to beg it of you for some friends of mine. The Ladies Botanical club of Syracuse N.Y. They are zealous workers — I promise that they will value it and use it — If you will write your name on the first page, it will enhance its value in their eyes —

Very Respy Yours
Charles E Smith
216 So 15th St.

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